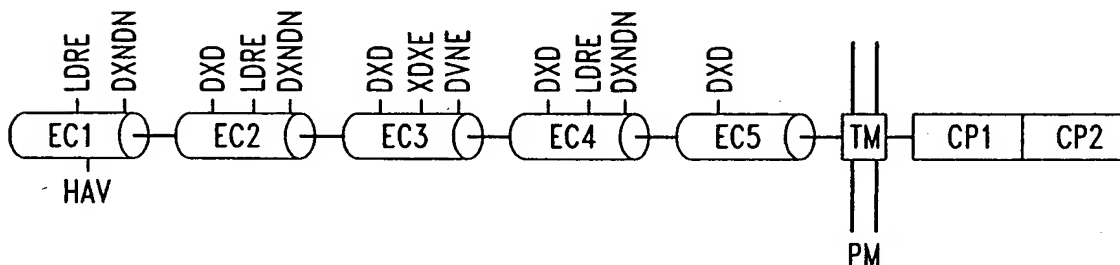
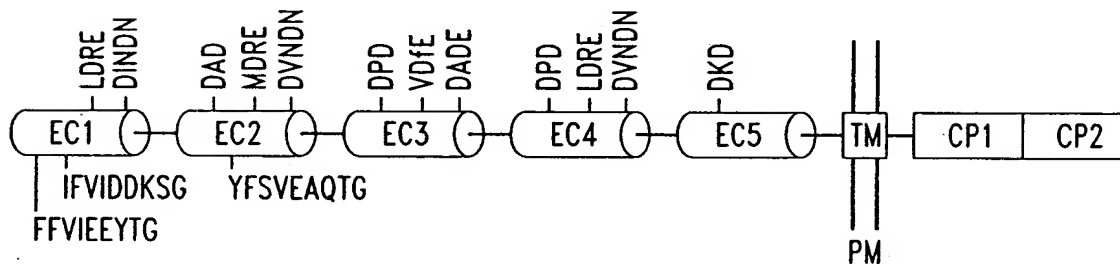


Classical cadherin



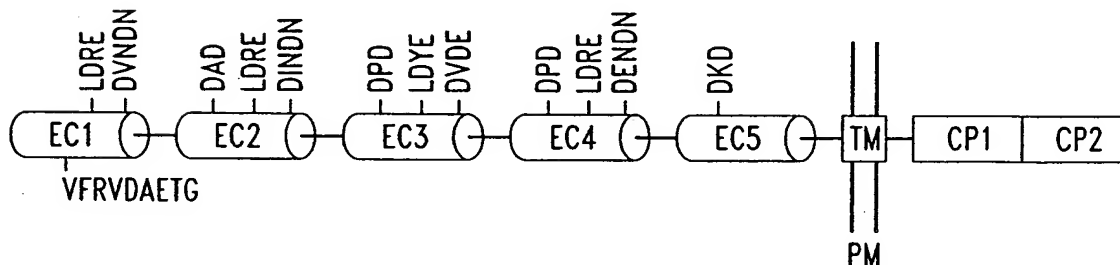
*Fig. 1A*

OB-cadherin



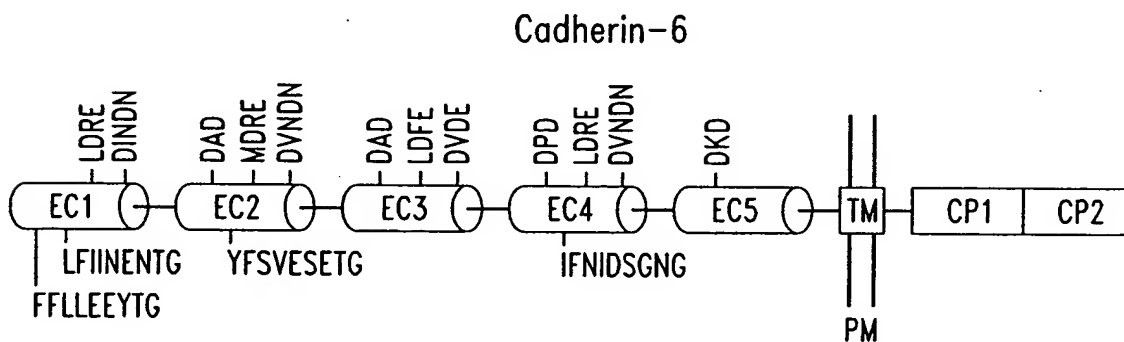
*Fig. 1B*

Cadherin-5

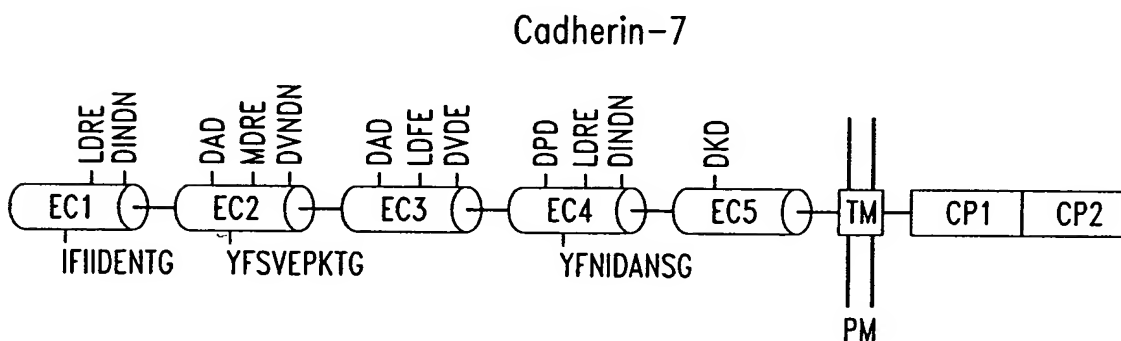


*Fig. 1C*

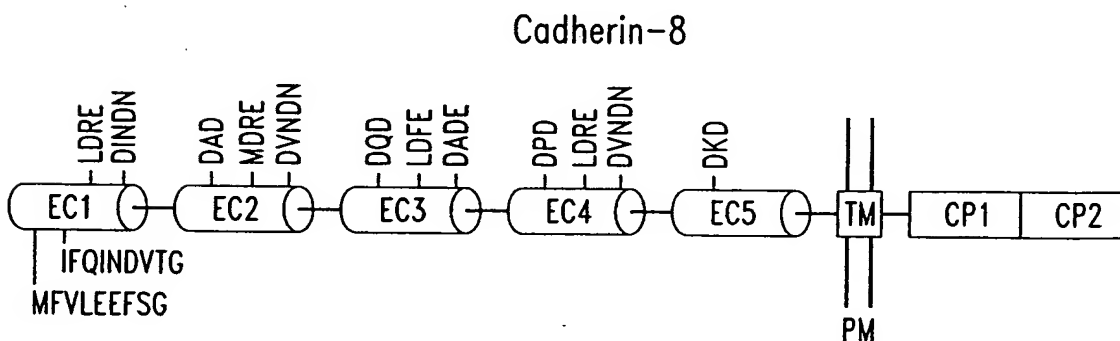
Publ. No. 69340004



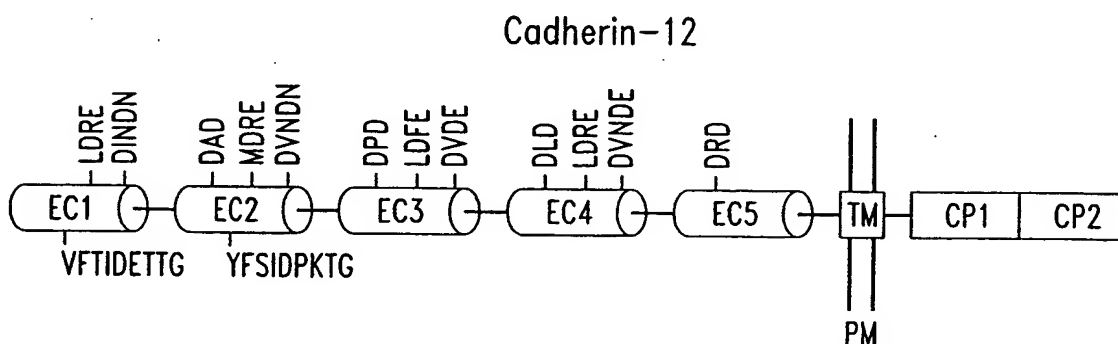
*Fig. 1D*



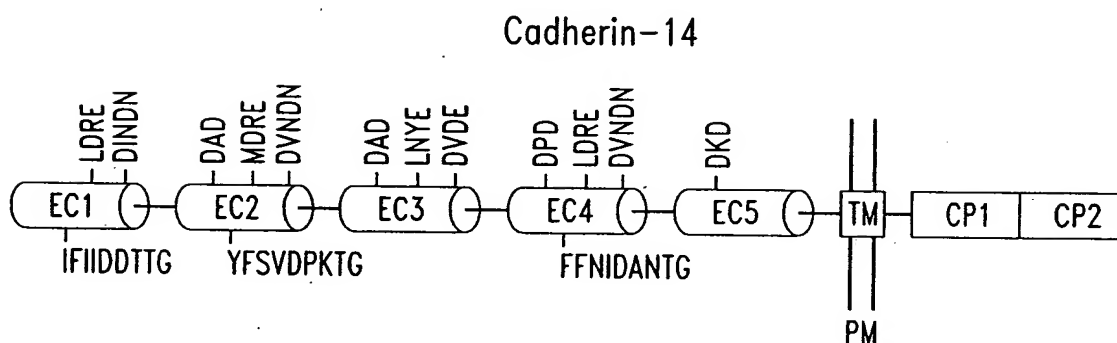
*Fig. 1E*



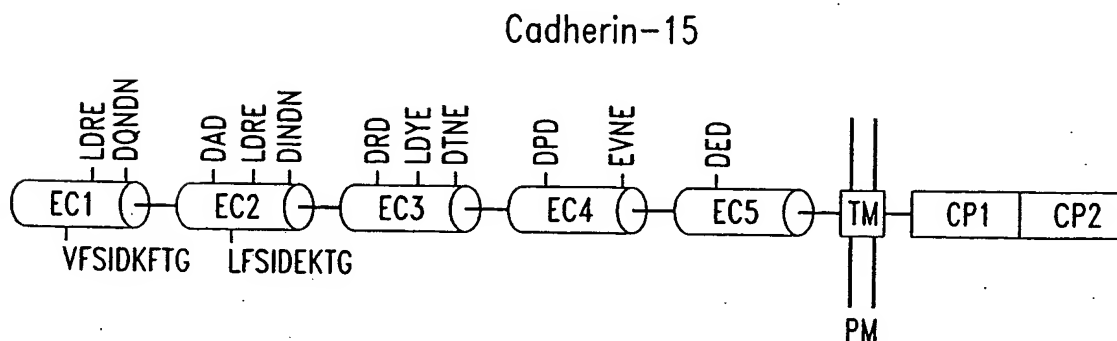
*Fig. 1F*



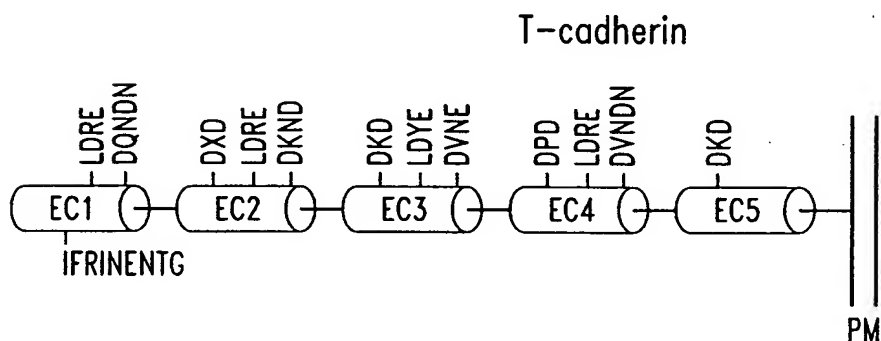
*Fig. 1G*



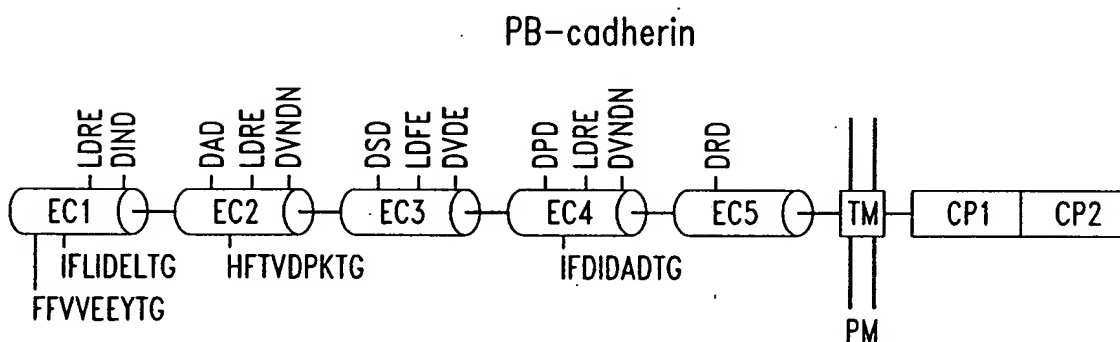
*Fig. 1H*



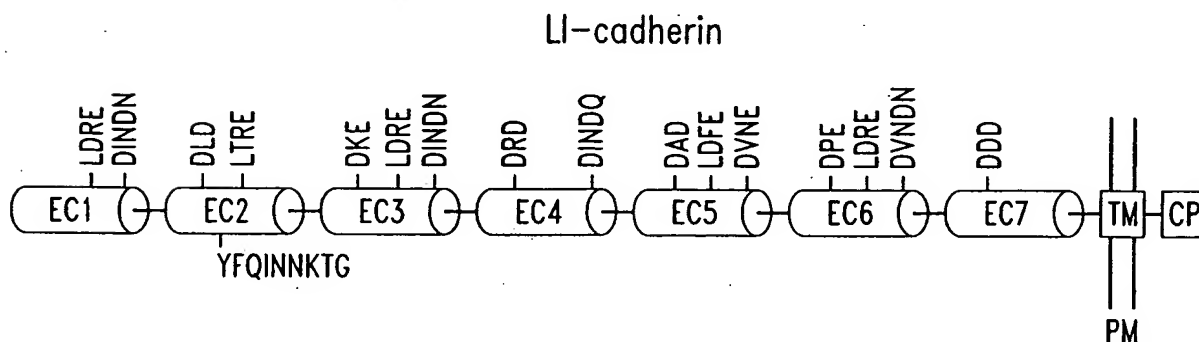
*Fig. 1I*



*Fig. 1J*



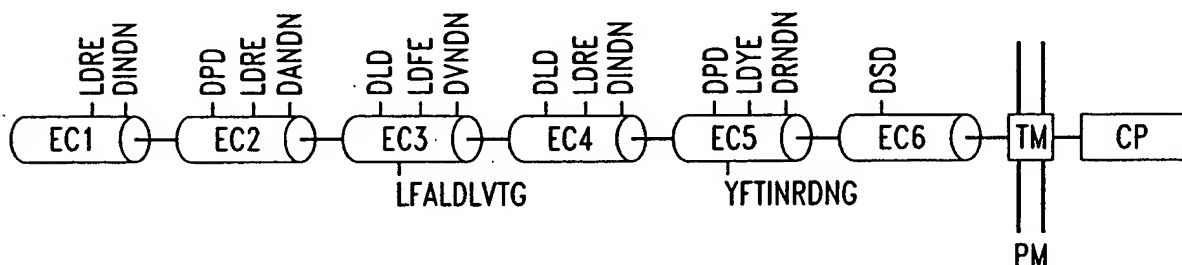
*Fig. 1K*



*Fig. 1L*

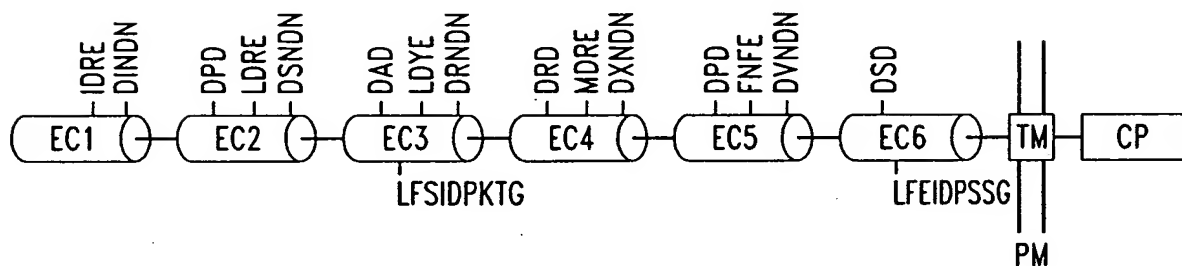
FIG. 1J, 1K, 1L

### Protocadherin 43



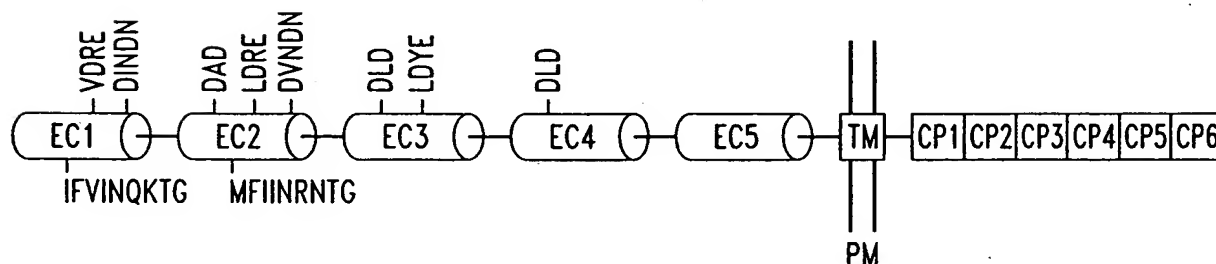
*Fig. 1M*

### Protocadherin 68



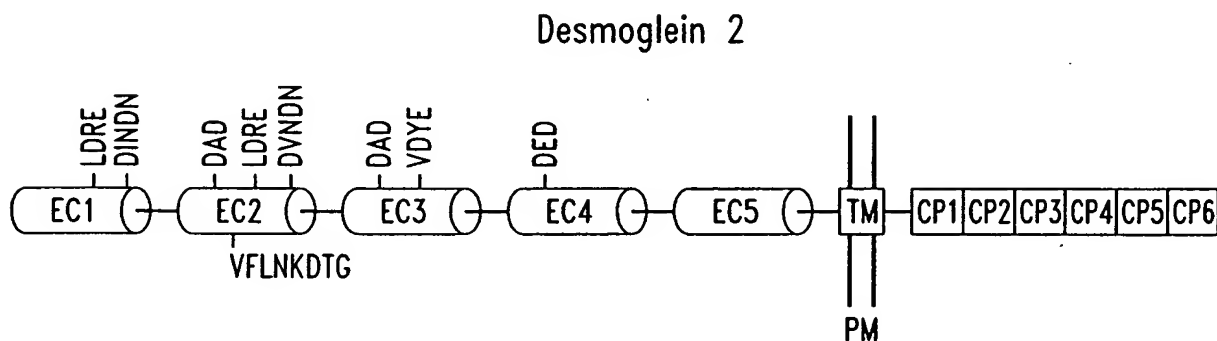
*Fig. 1N*

### Desmoglein 1

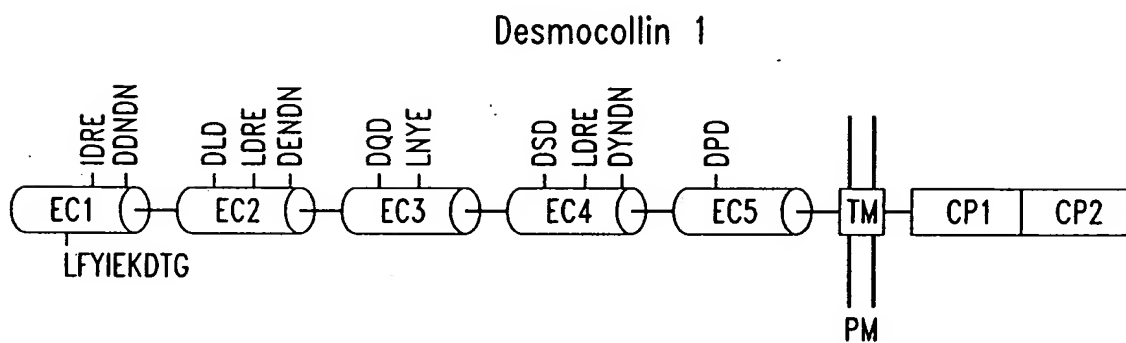


*Fig. 10*

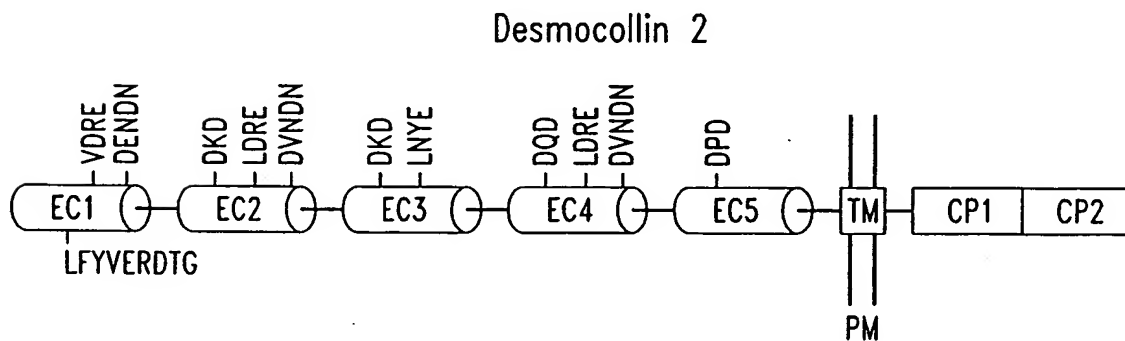
Pub. No. 6,389,000



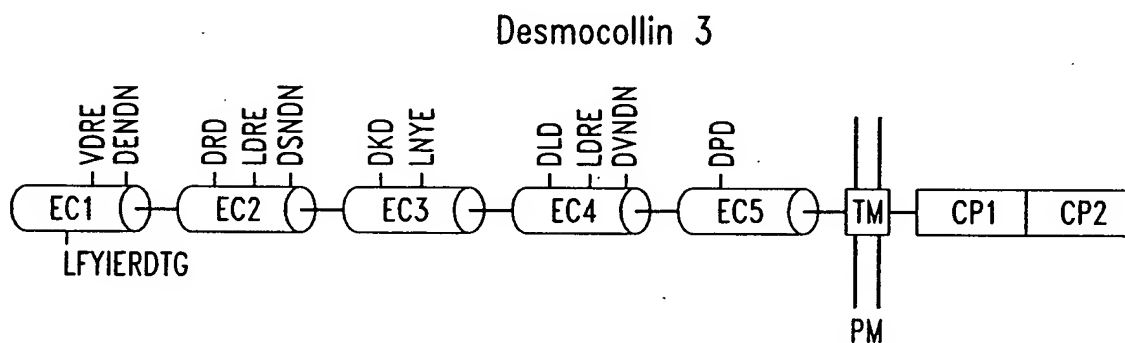
*Fig. 1P*



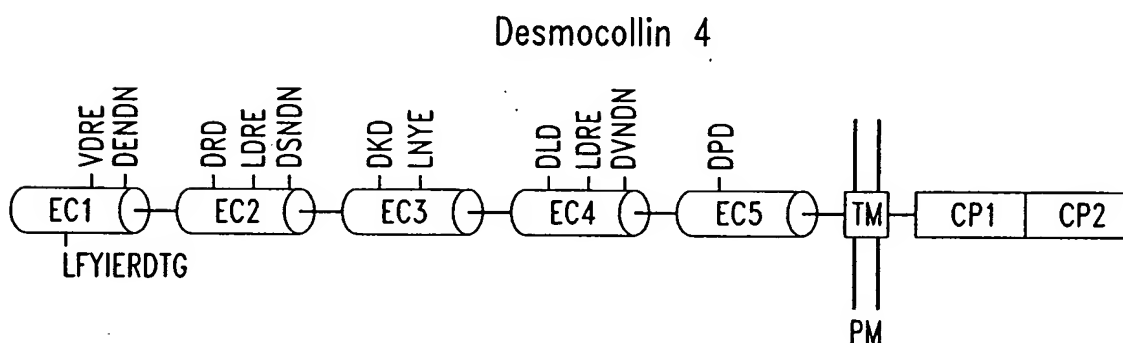
*Fig. 1Q*



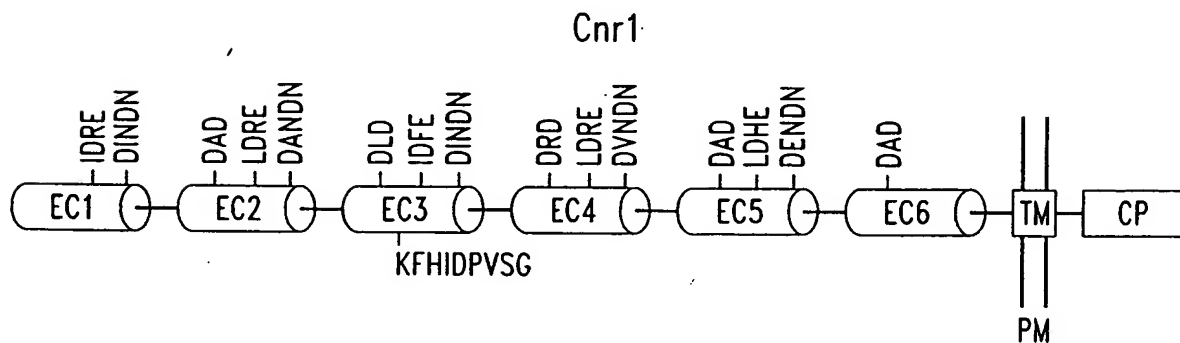
*Fig. 1R*



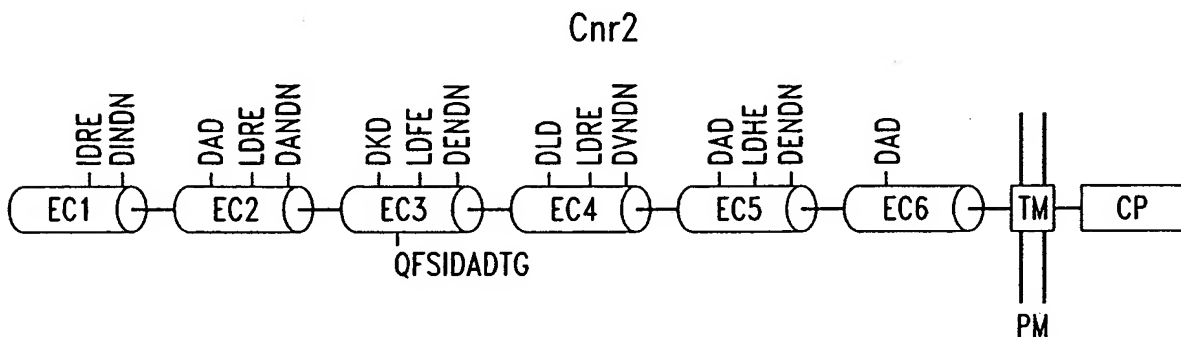
*Fig. 1S*



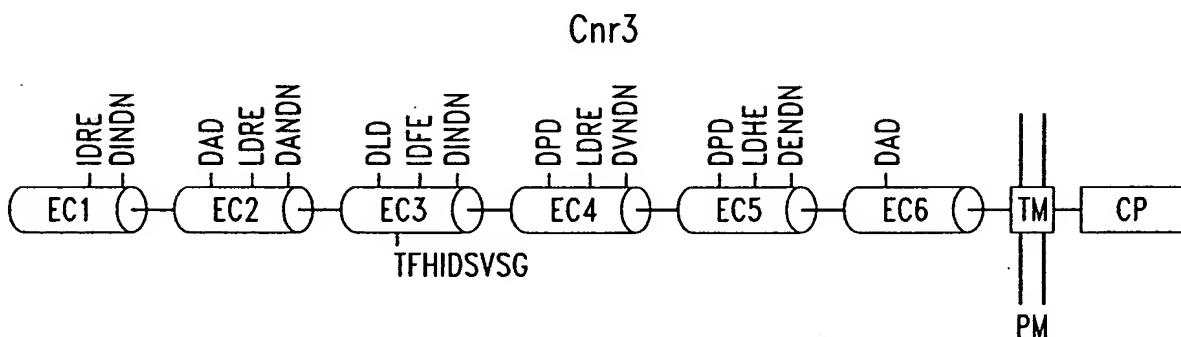
*Fig. 1T*



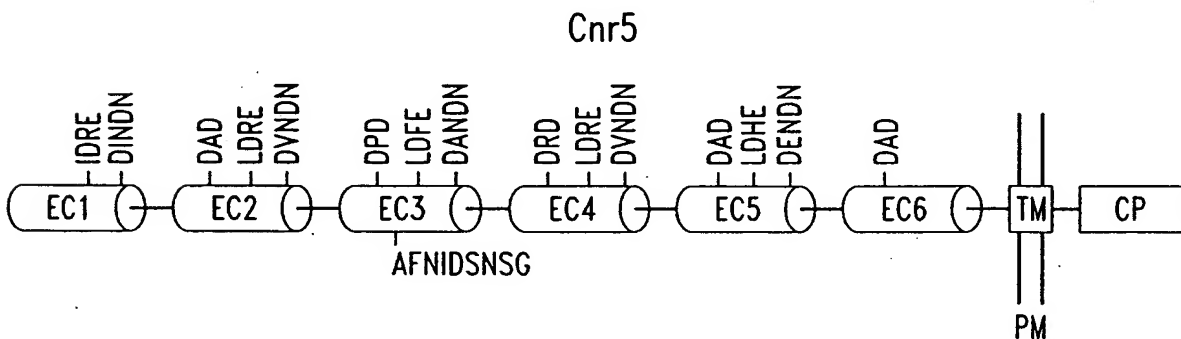
*Fig. 1U*



*Fig. 1V*

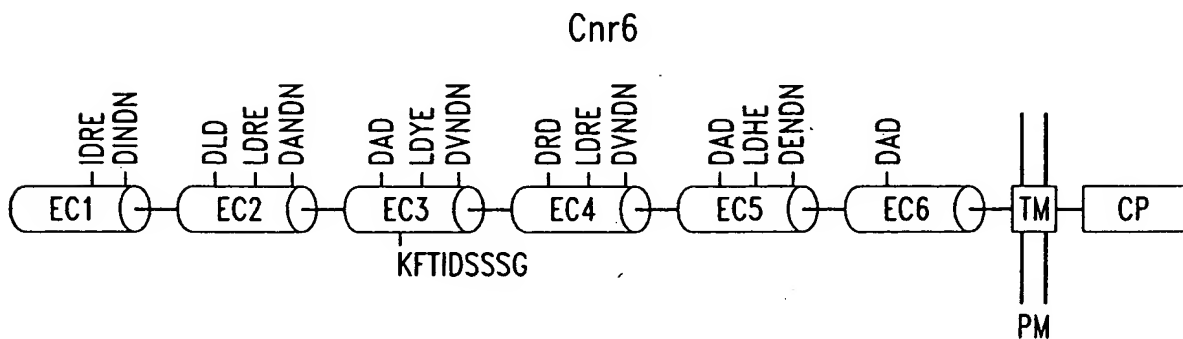


*Fig. 1W*

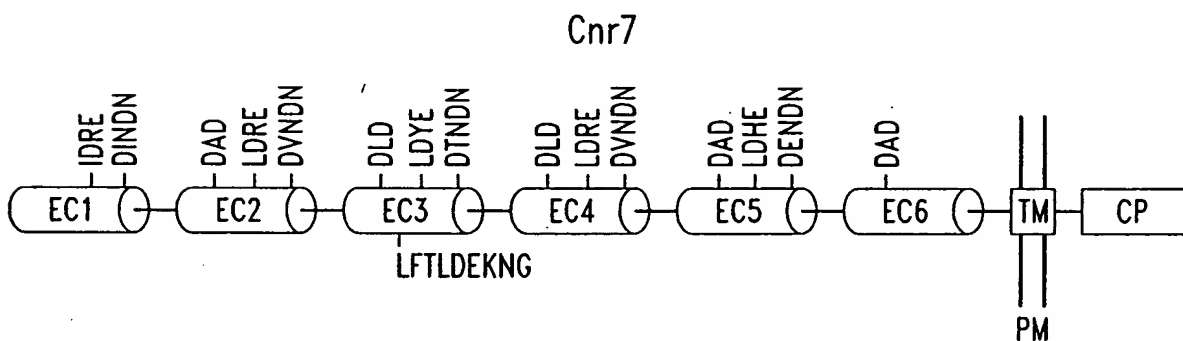


*Fig. 1X*

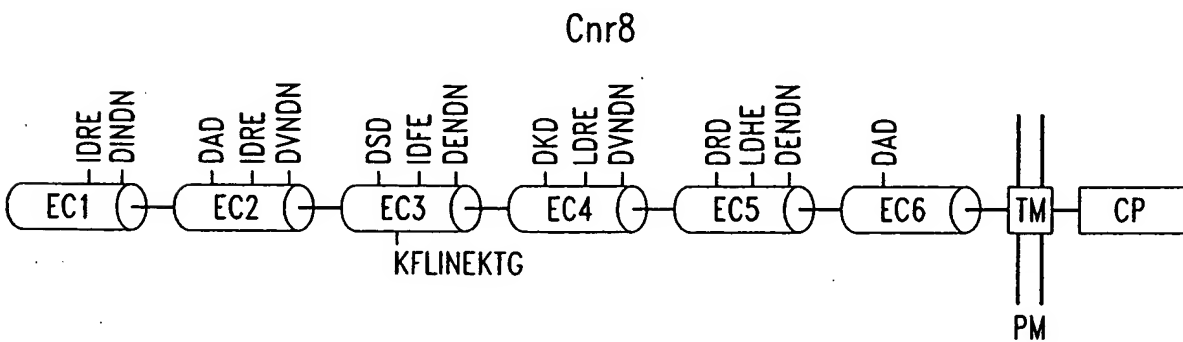




*Fig. 1Y*



*Fig. 1Z*



*Fig. 1AA*

FIG. 2A

Obcad	EC1	RSKRGMWNOFFVIEEYTGPPVLVGR LHSIDSGD---GNIKYILSGEGAG---TIFVDDKSGNI-HATKTLDREERAQ---YTLMAQAVDRDT---NRPLEPPSEFIVKQDINDNPPPEF
Obcad	EC2	---LHETYHANWIPERS-NVGTSVITQVTASDADPTYGNSAKLVYSILEGQP---YFSVEAQGTGIR TALPNMDREAKEE---YHVVIOAKOMGG-HWGLSGTTKVTITLTDWNDNPPKF
Cad5	EC1	RQKRDMINQMHIDEKNTSLPHHVGIKSSVRKN---AKYLLKGEVVG---KVRIDAETGDV-FATERLDRENISE---YHLTAVIVDKDTG---ENLETPSSFTIKVHDNDNWPVF
Cad6	EC1	RSKRSMMNOFFLLEEVGSDYQVYVGLHSDQDQD---GSLKYILSGDGAG---DLFTINENTGDI-QATKRLDREKPV---YTLRAQAINRRT---GRPVEPESEFIIKHINDNEPIF
Cad6	EC2	---TKEVVTATVPENS-DVGTFFVQVATADADPTYGNSAKWVYSILQGP---YFSVESETGIIKTALLNMDRENREQ---YQVWIOAKOMGG-QMGLSGTTWNITLTDWNDNPPRF
Cad6	EC4	---SKLAYILQIREDA-QINTTIGSVTAQDDPAAR---NPVKYSVDRHTDMD---RIFNIDSGNSI-FTSKLDRETLW---HNITVIAEINN---PKOSSRVPYIKVLVDNDNAPEF
Cad7	EC1	RTKRSWNNQFFVLEEYMGSDPLVYGLHSDVDKGD---GSIKYILSGEGAS---SIFIDENTGDI-HATKRLDREEQAY---YTLRAQAHDLT---NKPIPEPESEFVIKIQDINDNEPKF
Cad7	EC2	---LDGPTYTAGVPENS-PVGTSSVQVATADADPTYGNSARWVYSILQGP---YFSVEPKTGIIKTALPNMDREAKDQ---YLLVIOAKOMWG-QNGGLSGTTSVTVTLTDWNDNPPRF
Cad7	EC4	---TSRLYSMWVSEAA-KVGTIIGTVAAHDPDASN---SPVRYSIDRNTDLE---RYFNIDANSGLVITAKSLDRETNV---HNITVLAMESON---PAQIGRGVVAITLIDINDNAPEF
Cad8	EC1	RSKRGMWNNQFFVLEEFSGPEPILVGR LHTLDLPGS---KKIKYILSGDGAG---TIFQINDVTGDI-HAIKRLDREKAE---YTLTAQAVDMET---SKPLEPPSEFIIKIQDINDNAPEF
Cad12	EC1	RVKRGWNNQFFVLEEVGSEPPQYVGLHSDLDKGE---GTVKYILSGDGAG---TVFTIDETGDI-HAIRSLDREKPF---YTLRAQAVDIET---RKPLEPESEFIIKIQDINDNEPKF
Cad12	EC2	---LDGPTYVATVPENS-PVGAYVLQVKATDADADPTYGNSARWVYSILQGP---YFSIDPKTGIVRTALPNMDREVKEQ---YQVLIOAKOMGG-QLGGLAGTIVNITLTDWNDNPPRF
Cad14	EC1	RPKRGWNNQFFVLEEHMGDPQYVGLHSHNSDKGD---GSVKYILTGEAG---TIFIIDDTGDI-HSTKSLDREQKTH---YVLHAQAIIDRRT---NKPLEPESEFIIKIQDINDNAPKF
Cad14	EC2	---TDGPTYVTVPEMS-DMGTSVLQVTAADADPTYGNSARWVYSILQGP---YFSVDPKGTGIVRTALHMDREAREH---YSVWIOAKOMWAG-QVGLSGSTTWNITLTDWNDNPPRF
Cad14	EC4	---SMPSYLMVYENA-KIGTVGTVLAQDDPSN---SLVRYFINYNVEDD---RFFNIDANTGTIRT-TKVL DREETPW---YNTVTASEIDN---PDLLSHVTVGIRVLVDNDNPPPEL
Cad15	EC1	---RYRRANWTPISVSENHKLRYPLVQIKSDKQ---LGSVIYSIQGPVDEEPRGVSIDKFTGKV-FLNWL DREKTOR---FRLRAFA LD LG---STLEDPTDLEI WVVDQDNRPAF
Cad15	EC2	---LQEAFTGRVLEGA-VPGTVYTRAEATDADDPETD NAALRFSILOQGSPE---LFSIDELTGEIRTVQGLDREVAV---YNLTLQVA-D--MSGDGLTATASAITLDDINDNAPEF
Tcad	EC1	-RQKRSIVVSPILLPENQRPFRDVGKVDSDRPSKFRLTGKGVQDEPKG---IFRLINENTGSV-SVTRTLDREVIAV---YQLFVETTDVNG---KTLEGPVPLEVIVIDQDNRPIF
PBcad	EC1	RVKRGWNNQFFVIEEYTGTEPLVYGIHSDSDEGD---GTIKYITISGEGAG---TIFLIDELT GDI-HATERLDREQKTF---YTLRAQARDAT---NRLLEPESEFIIKIQDINDSEPRF
PBcad	EC2	---LHGPYIGSVAELS-PTGTSWQVWNASDADPTYGSSARLVSVLDGEH---HFTVDPKGTGIVRTAVPDL DRESQER---YEWVIOATDMAG-QLGGLSGSTTWTIWTWTDNNDNPPRF
PBcad	EC4	---RPPSGLLEVQEDA-QVGLSVGVWVTARDPPAAN---RPVRYAIDRDSOLE---QIFDIDADTGAI-VTGKGLDRETAGW---HNITVLAMEADN---HAQLSRASLRIRILVDNDNPPPEL
LIcad	EC2	---LQSKYEGSVRQNS-RPGKPFLYNNATLDDPATPNGLYVQIVIQLPMINWYFQINNKTGAI---SLTREGSQELNPKNPNYLVISVKOMGGQSENFSOTTSVDIIVTENIWKAPAP
Pcd43	EC3	---NQSLYRARVPGGC-TSGTRVWQVLA TL DLEGP---NGEITYSFGSHNRAGVR-QLFALDLVTGML-TIKGR LDFEDTKL---HEIYIOAKDKGA---NPEGAHCKVLVEVVDNDNAPEI

Fig. 2A

Sheet 6 of 9

Pcd43	EC5	-----SQSSVYVIEENW-LPGAPILNLSWDPDAPQN-ARLSFELLEGAETGLVGRYFTINRONGIV-SSLVPLDYEDRRE-----FELTAHISDGGT-----PVLATNISVNIWFVTRDNDNAPQV
Pcd68	EC3	-----EAPSYLVELPENT-PLGTWVIDLNATDADEGP--NGEVLVSFSYVPRVR-ELFSIDPKTGLI-RVKGNDLYEENGW-----LEIDVQARDLGP-----NLIPAHCXVTVKLIDRNDNAPS
Pcd68	EC6	VLPTLQNDTAELQVRNAGLYGVSTVRALDSDFGE--SGRLTYEIVDGNDD-----HLFEIDPSSGEI-RTLHPFVEDVTPV-----VELVKVTDHGKPT-----
Dsg1	EC1	RQKREWIKAACREGEDNSKNRPJAKTHSDCAAN-----QQVTRYISGVIGDQPPVGFVINOCTGEI-NITSIVDREVTPE-----FIICYRALNSMG-----QDLERLELRVRVLDINDNPPVF
Dsg1	EC2	-----SMATFAGQIEENS-NANTLVMLNATDAEPNINLSKIAFKIIRQESDSP--MFIINRNTGIRTMNFIIDREQVGQ-----YALAVGSDRDG-GADGMSAECECNIKILDVNDNIPYM
Dsg2	EC2	-----TQDVFGSVEELS-AAHTLVKMNATDAEPNINLSKISVRIVSLEPAYPP--VFVYNKOTGEIYTTTSVTLDREEHSS-----YTLTVEARDNGEVTDKPVKQAOQVIRILDVNDNIPW
Dsc1	EC1	-----RWAPIASLMENSLGPFPHVQIQSDAAQN-----YTIIFYISISGPGVDKEPNLFYIEKOTGDI-FCTRSIDREKVEQ-----FALYGYATTADG--YAPEYPLP-LIIKIEDDNDNAPY
Dsc2	EC1	-----RWAPIPCSMLENSLGPFPLFQQVQSDTAQN-----YTIYYSIRGPGVDQEPNLFYVERDTGNL-YCTRPVDREQVES-----FEIIAFATTPDG--YTPPELPL-LIIKIEDDNDNYP
Dsc3	EC1	-----RWAPIPCSMQENSLGPFPLFQQVESDAAQN-----YTVFYSISGRGVDKPEPLNLFYIERDTGNL-FCTRPVDREYDV-----FDLIAYASTADG--YSADLPLP-LP1RVEDENDNHPV
Dsc4	EC1	-----RWAPIPCSMQENSLGPFPLFQQVESDAAQN-----YTVFYSISGRGVDKPEPLNLFYIERDTGNL-FCTRPVDREYDV-----FDLIAYASTADG--YSADLPLP-LP1RVEDENDNHPV
Cnr1	EC3	-----DRSLYTVKLPENW-PNGTLWKYNASDLDEGV--NGDINYSFSDISPNWK-YKFHIDPVSGEI-IVKGYIDFECKS-----YEILIEGIDKGQ--LPLSGHCKVIVQVEDINDNVP
Cnr2	EC3	-----QHPEYEVRILENS-DNGTTVIRLNASDKOEGT--NSAISVSFNRVPPKTL-EQFSIDADTGEI-ITQGNLDFEQVDV-----YKIHVDATDKGH-----PPMWGHCTVLKVLDENDNVPQI
Cnr3	EC3	-----DRATYRVKLVENA-RNGTVVIRLNASDLDEGS--NGQILYSFAADVSPKTE-ATFHIDSVSGEI-KVNGKIDFEETNL-----WKIOAEAVDKGS-----PPMFGHCTILIEVLDINDNAPKI
Cnr5	EC3	-----DRFYVKKVLEDA-LNGTLVINLNATDPDEGI--NGDIIYSFRRPSPAVV-HAFNIDSNSGEV-RTKGLDFFEEIKL-----YEIPVEAVDKGN-----IPMTGHCTLLVELLDVNDNAPEV
Cnr6	EC3	-----DKSTYNVRLLENT-PNGTLVTKLNASDADEGI--NKEILYFFSNLVLDVK-SKFTIDSSSGEI-KVKGELDYEDCKV-----YEINIDAVDRSA--FPLAGHCKITVCLVDVNDNVP
Cnr7	EC3	-----DHLEYKVRIMEVA-AKETLVITLNATDLDEGA--NGQLVYSLS-IPKTPGRH-LFTLDEKNGL-RVNGTLDYEENKL-----YEIEVLATDKGT--PPMWGHCVVLVEILDTNDNSPEV
Cnr8	EC3	-----DRSYVEVQWYENQ-EINKTLVIWLNATDSDEGI--NKEVEYSFSSCLASSIIR-QKFLINEKTGEI-KINGAIDFESNN-----YEIHVDATDKGY--PPMVAHCTVLVEILDENDNAPEI

Fig. 2B

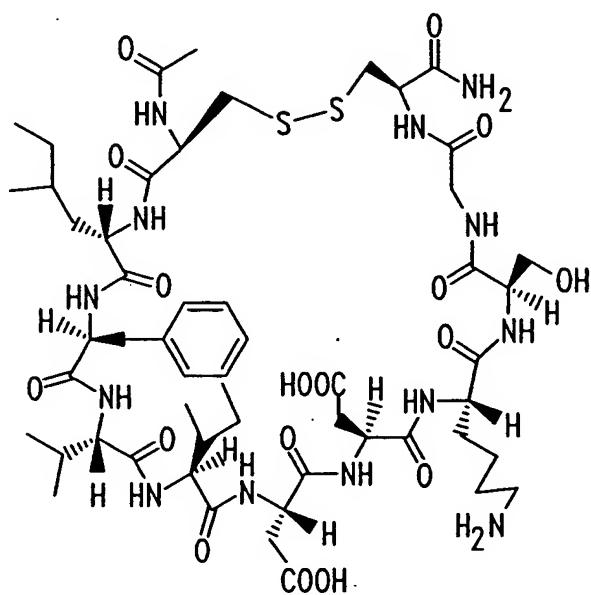
Human GWVWNQFFVIEEYTGPDVVLVGR LHSDIDSGDGNIKYILSGEGAG  
Mouse GWVWNQFFVIEEYTGPDVVLVGR LHSDIDSGDGNIKYILSGEGAG

Human TIFVIDDKSGNIHATKTLDREERAQYTLMAQAVDRDTNRPLEPPS  
Mouse TIFVIDDKSGNIHATKTLDREERAQYTLMAQAVDRDTNRPLEPPS

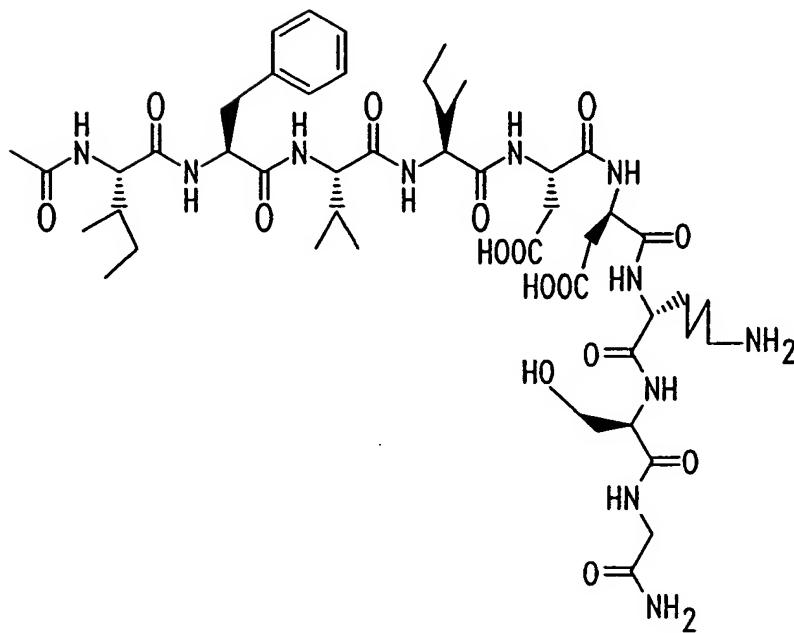
Human EFIVKVQDINDNPPEF  
Mouse EFIVKVQDINDNPPEF

*Fig. 3*

100086.407C1



N-Ac-CIFVIDDKSGC-NH<sub>2</sub>



N-Ac-IFVIDDKSG-NH<sub>2</sub>

Fig. 4A

100086.407C1

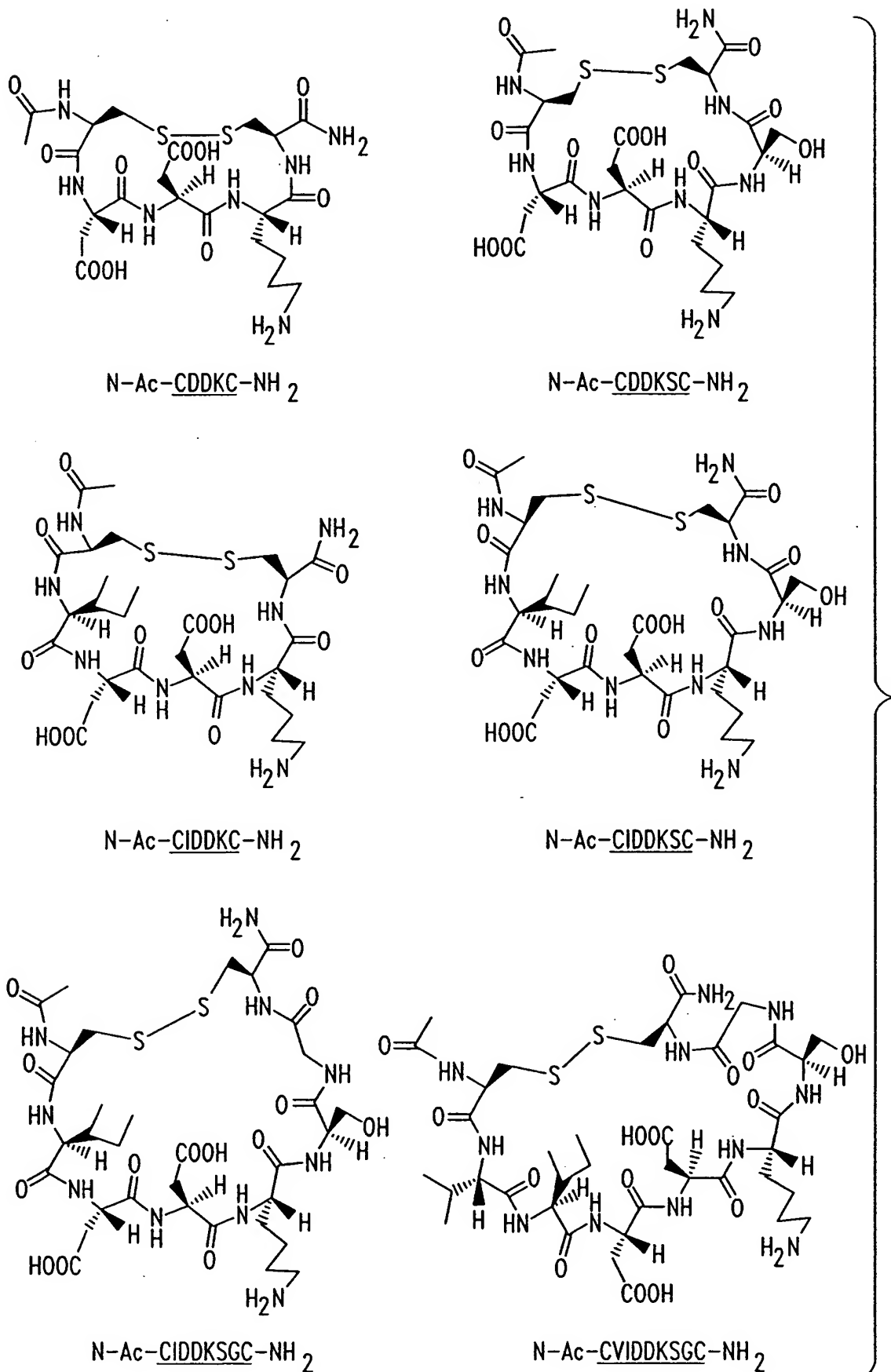
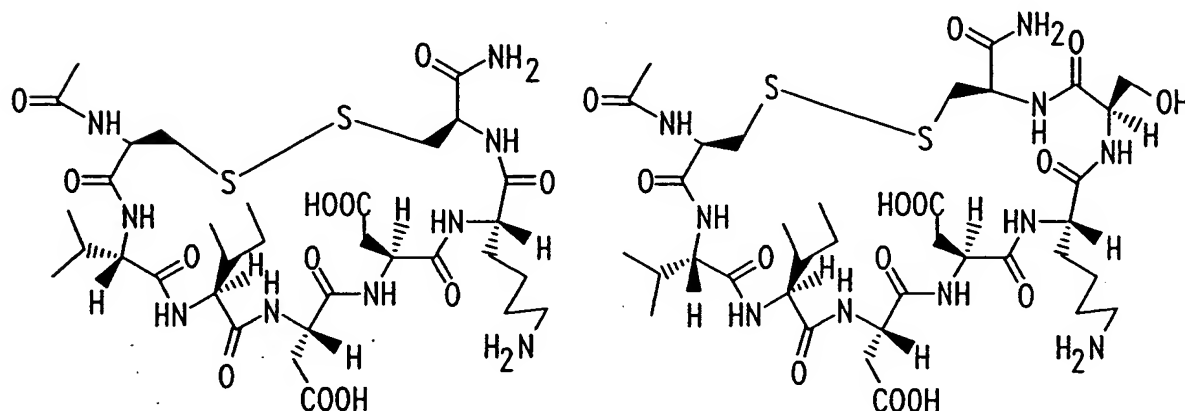
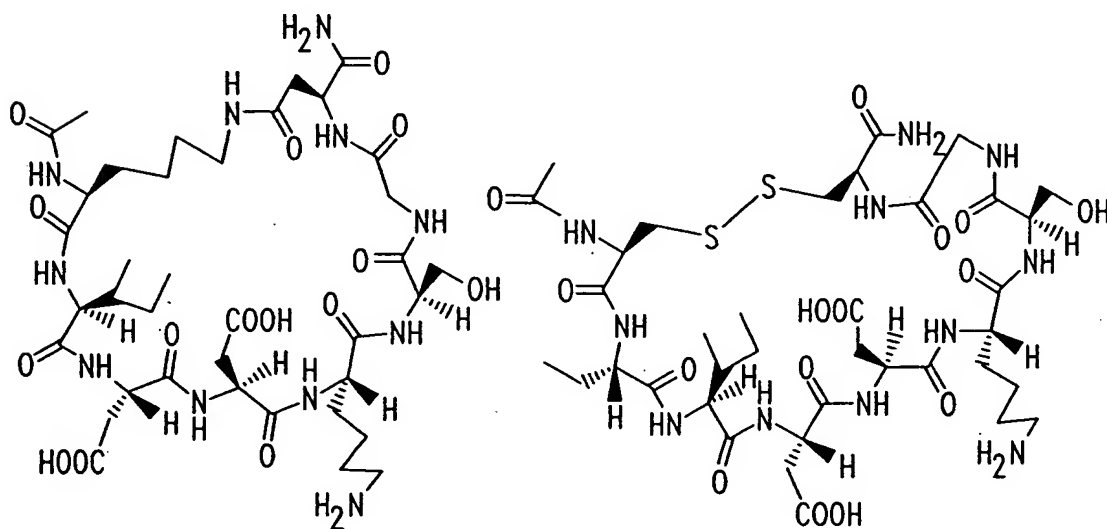


Fig. 4B



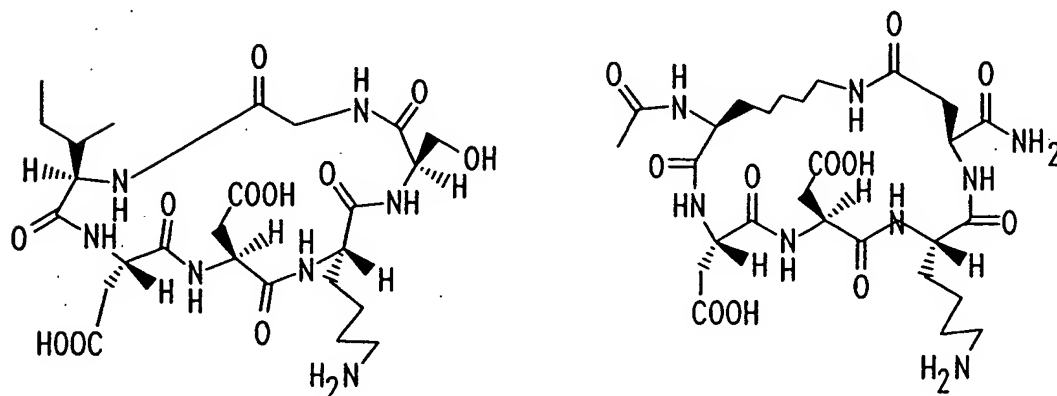
N-Ac-CVIDDKC-NH<sub>2</sub>

N-Ac-CVIDDKSC-NH<sub>2</sub>



N-Ac-KIDDKSGD-NH<sub>2</sub>

N-Ac-CVIDDKSGC-NH<sub>2</sub>



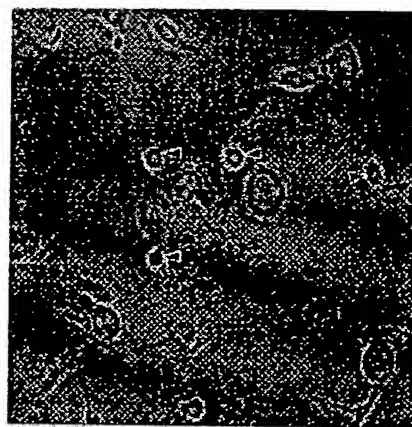
N-Ac-IDDKSG-NH<sub>2</sub>

N-Ac-KDDKD-NH<sub>2</sub>

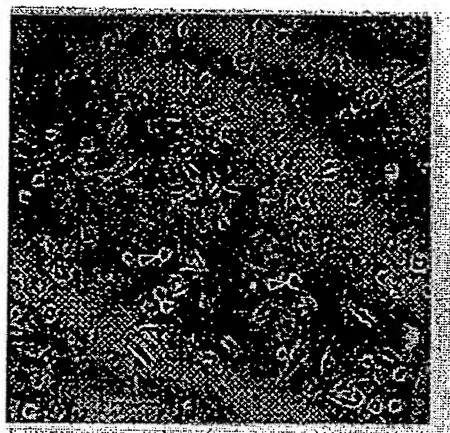
Fig. 4C



*Fig. 5A*



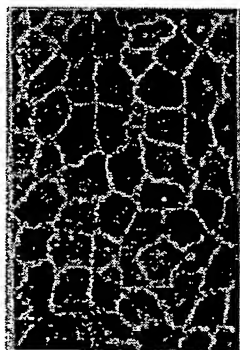
*Fig. 5B*



*Fig. 5C*

100086.407C1





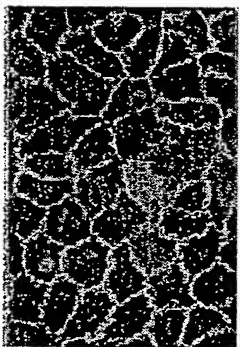
Control

*Fig. 6A*



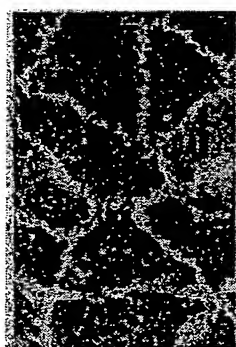
Control

*Fig. 6B*



H-VFRVDAETGD-OH

*Fig. 6C*



H-VFRVDAETGD-OH

*Fig. 6D*



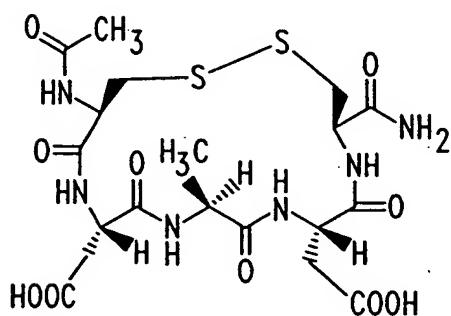
N-Ac-VFRVDAETGD-NH<sub>2</sub>

*Fig. 6E*

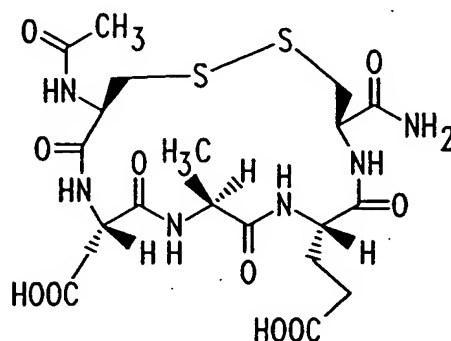


N-Ac-VFRVDAETGD-NH<sub>2</sub>

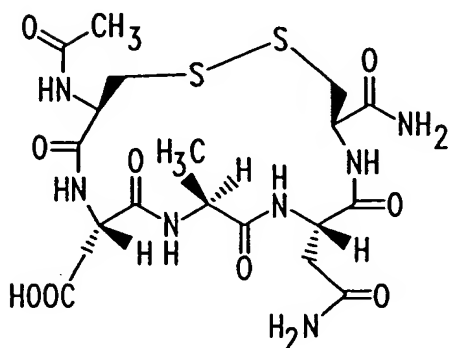
*Fig. 6F*



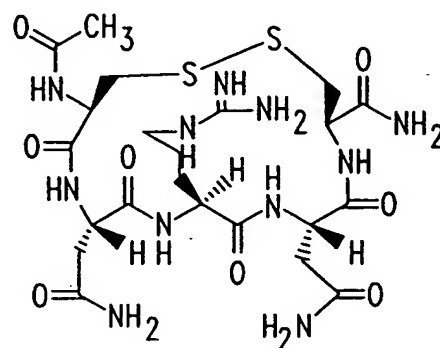
N-Ac-CDADC-NH<sub>2</sub>



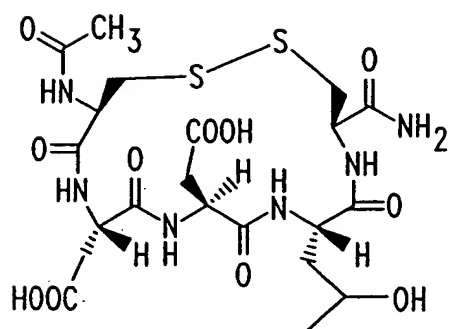
N-Ac-CDAEC-NH<sub>2</sub>



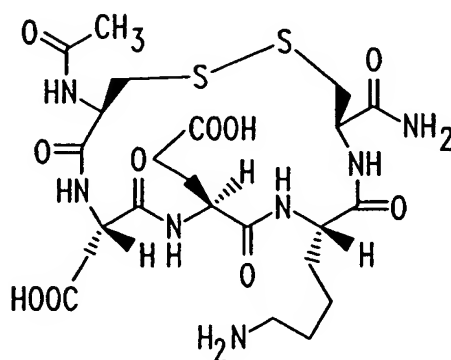
N-Ac-CDANC-NH<sub>2</sub>



N-Ac-CNRNC-NH<sub>2</sub>



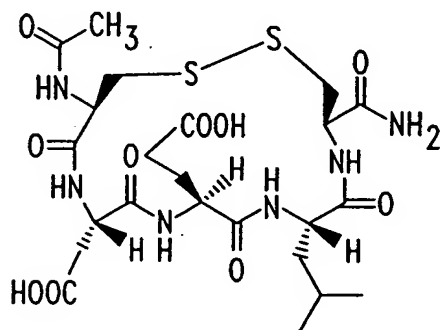
N-Ac-CDDTC-NH<sub>2</sub>



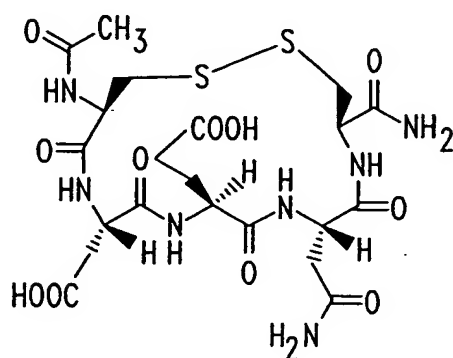
N-Ac-CDEKC-NH<sub>2</sub>

Fig. 7A

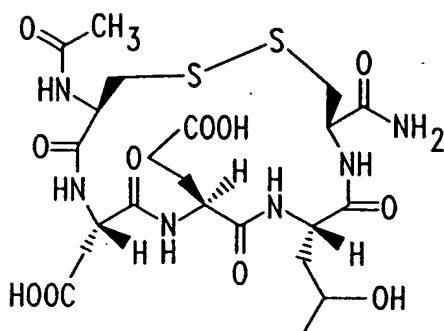
100086.407C1



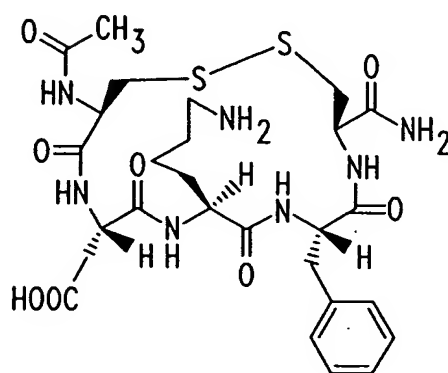
N-Ac-CDELC-NH<sub>2</sub>



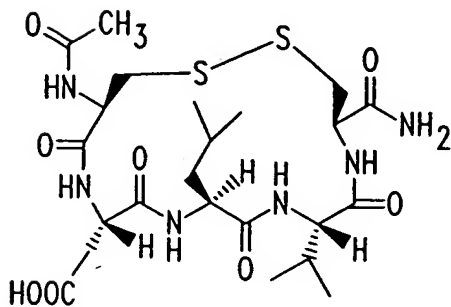
N-Ac-CDENC-NH<sub>2</sub>



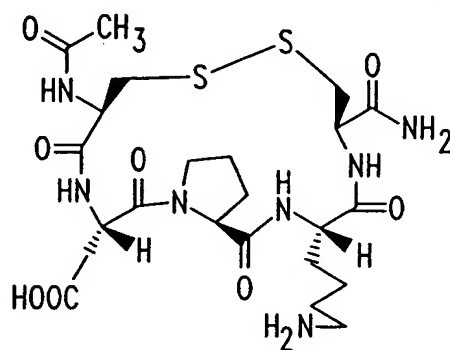
N-Ac-CDETC-NH<sub>2</sub>



N-Ac-CDKFC-NH<sub>2</sub>

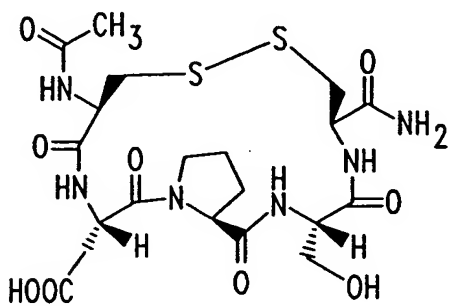


N-Ac-CDLVC-NH<sub>2</sub>

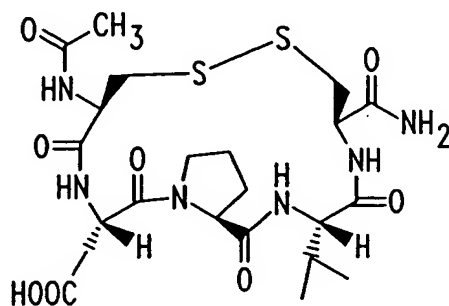


N-Ac-CDPKC-NH<sub>2</sub>

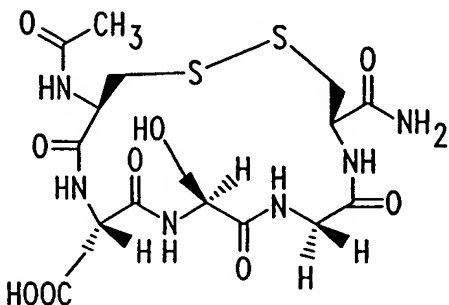
Fig. 7B



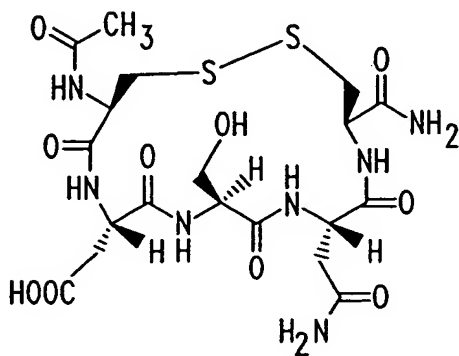
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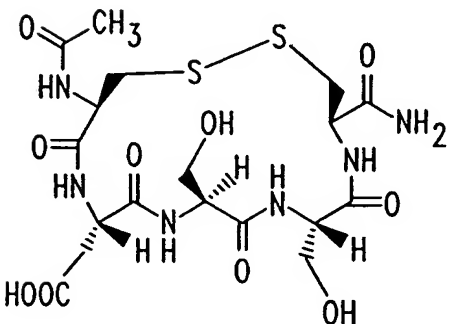
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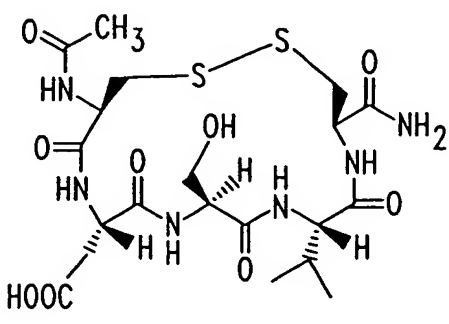
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N-Ac-CDSNC-NH<sub>2</sub>



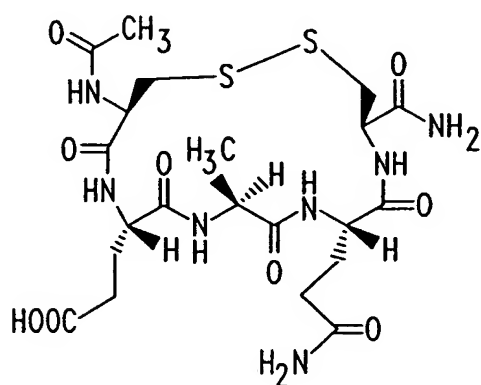
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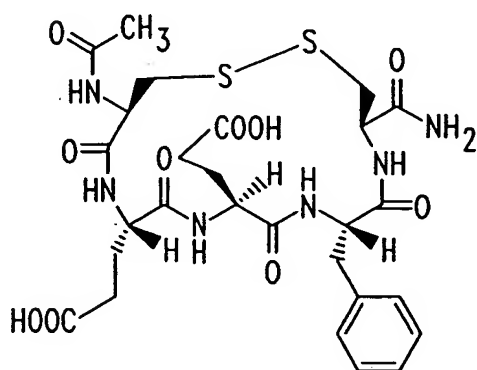
N-Ac-CDSVC-NH<sub>2</sub>

Fig. 7C

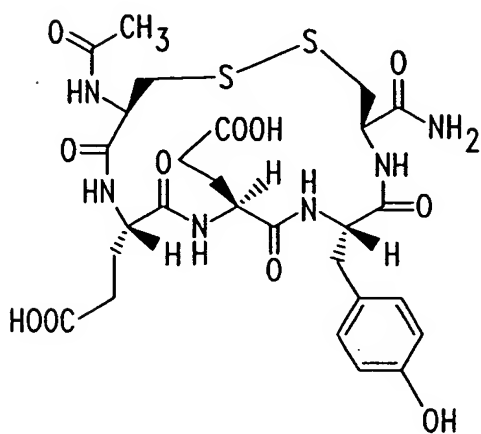
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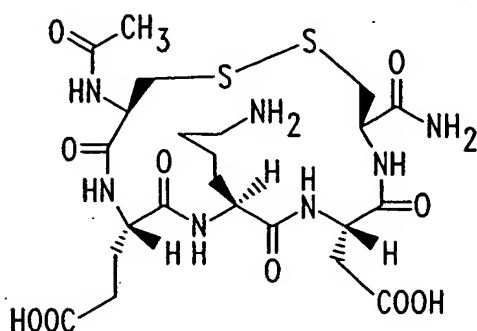
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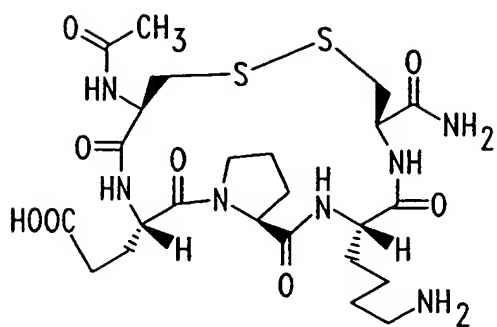
N-Ac-CEEFC-NH<sub>2</sub>



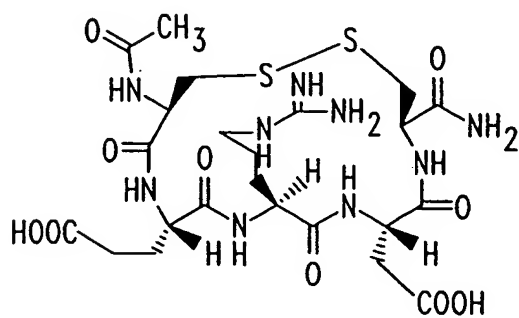
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N-Ac-CEKDC-NH<sub>2</sub>



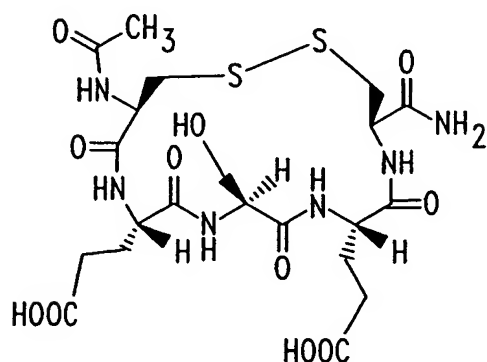
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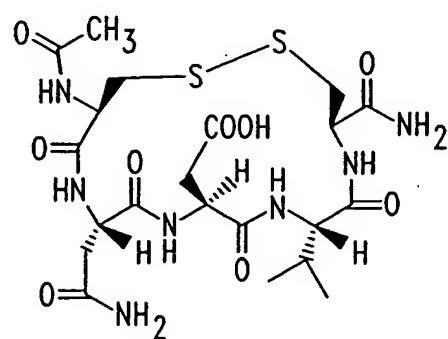
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Fig. 7D

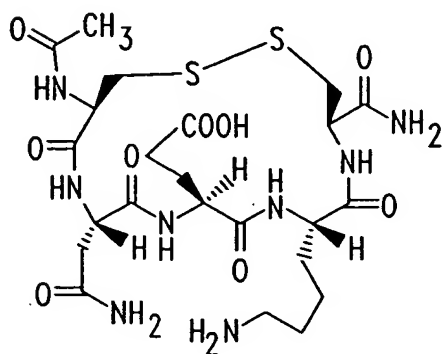
Publ. No. 6939001



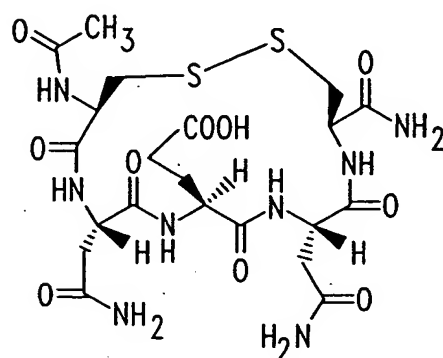
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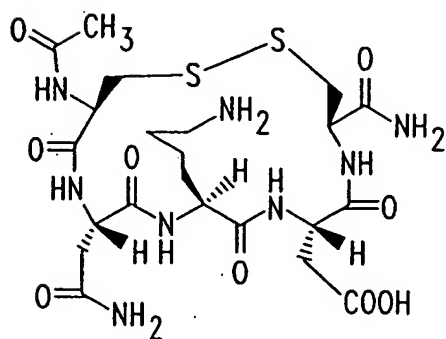
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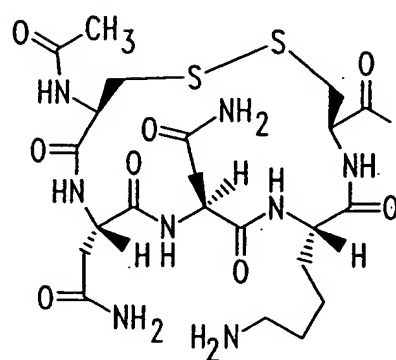
N-Ac-CNEKC-NH<sub>2</sub>



N-Ac-CNENC-NH<sub>2</sub>

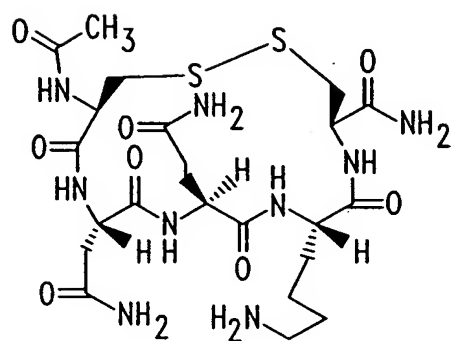


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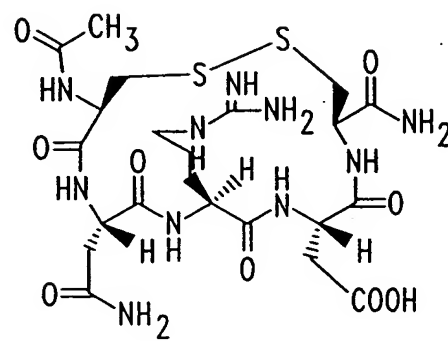


N-Ac-CNNKC-NH<sub>2</sub>

Fig. 7E



N-Ac-CNQKC-NH<sub>2</sub>



N-Ac-CNRDC-NH<sub>2</sub>

*Fig. 7F*